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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/996,069

DATE: 07/18/2002

TIME: 12:49:24

Input Set : A:\EP.txt

Output Set: N:\CRF3\07182002\I996069.raw

3 <110> APPLICANT: Bamdad, Cynthia  
4 Bamdad, R. Shoshana  
6 <120> TITLE OF INVENTION: DIAGNOSTIC TUMOR MARKERS, DRUG SCREENING FOR TUMORIGENESIS  
INHIBITION,  
7 AND COMPOSITIONS AND METHODS FOR TREATMENT OF CANCER  
9 <130> FILE REFERENCE: M01015/70071  
11 <140> CURRENT APPLICATION NUMBER: 09/996,069  
12 <141> CURRENT FILING DATE: 2001-11-27  
14 <160> NUMBER OF SEQ ID NOS: 35  
16 <170> SOFTWARE: PatentIn version 3.1  
18 <210> SEQ ID NO: 1  
19 <211> LENGTH: 39  
20 <212> TYPE: PRT  
21 <213> ORGANISM: Homo sapiens  
23 <400> SEQUENCE: 1  
25 Gly Thr Ile Asn Val His Asp Val Glu Thr Gln Phe Asn Gln Tyr Lys  
26 1 5 10 15  
29 Thr Glu Ala Ala Ser Pro Tyr Asn Leu Thr Ile Ser Asp Val Ser Val  
30 20 25 30  
33 Ser His His His His His His  
34 35  
37 <210> SEQ ID NO: 2  
38 <211> LENGTH: 51  
39 <212> TYPE: PRT  
40 <213> ORGANISM: Homo sapiens  
42 <400> SEQUENCE: 2  
44 Gly Thr Ile Asn Val His Asp Val Glu Thr Gln Phe Asn Gln Tyr Lys  
45 1 5 10 15  
48 Thr Glu Ala Ala Ser Pro Tyr Asn Leu Thr Ile Ser Asp Val Ser Val  
49 20 25 30  
52 Ser Asp Val Pro Phe Pro Phe Ser Ala Gln Ser Gly Ala His His His  
53 35 40 45  
56 His His His  
57 50  
60 <210> SEQ ID NO: 3  
61 <211> LENGTH: 54  
62 <212> TYPE: PRT  
63 <213> ORGANISM: Homo sapiens  
65 <400> SEQUENCE: 3  
67 Val Gln Leu Thr Leu Ala Phe Arg Glu Gly Thr Ile Asn Val His Asp  
68 1 5 10 15  
71 Val Glu Thr Gln Phe Asn Gln Tyr Lys Thr Glu Ala Ala Ser Pro Tyr  
72 20 25 30  
75 Asn Leu Thr Ile Ser Asp Val Ser Val Ser Asp Val Pro Phe Pro Phe

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76          35          40          45
79 His His His His His His
80          50
83 <210> SEQ ID NO: 4
84 <211> LENGTH: 31
85 <212> TYPE: PRT
86 <213> ORGANISM: Homo sapiens
88 <400> SEQUENCE: 4
90 His His His His His His Gly Phe Leu Gly Leu Ser Asn Ile Lys Phe
91 1          5          10          15
94 Arg Pro Gly Ser Val Val Val Gln Leu Thr Leu Ala Phe Arg Glu
95          20          25          30
98 <210> SEQ ID NO: 5
99 <211> LENGTH: 46
100 <212> TYPE: PRT
101 <213> ORGANISM: Homo sapiens
103 <400> SEQUENCE: 5
105 Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His Gly
106 1          5          10          15
109 Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro
110          20          25          30
113 Pro Ala His Gly Val Thr Ser Ala His His His His His His
114          35          40          45
117 <210> SEQ ID NO: 6
118 <211> LENGTH: 33
119 <212> TYPE: PRT
120 <213> ORGANISM: Homo sapiens
122 <400> SEQUENCE: 6
124 Gly Thr Ile Asn Val His Asp Val Glu Thr Gln Phe Asn Gln Tyr Lys
125 1          5          10          15
128 Thr Glu Ala Ala Ser Pro Tyr Asn Leu Thr Ile Ser Asp Val Ser Val
129          20          25          30
132 Ser
136 <210> SEQ ID NO: 7
137 <211> LENGTH: 45
138 <212> TYPE: PRT
139 <213> ORGANISM: Homo sapiens
141 <400> SEQUENCE: 7
143 Gly Thr Ile Asn Val His Asp Val Glu Thr Gln Phe Asn Gln Tyr Lys
144 1          5          10          15
147 Thr Glu Ala Ala Ser Pro Tyr Asn Leu Thr Ile Ser Asp Val Ser Val
148          20          25          30
151 Ser Asp Val Pro Phe Pro Phe Ser Ala Gln Ser Gly Ala
152          35          40          45
155 <210> SEQ ID NO: 8
156 <211> LENGTH: 25
157 <212> TYPE: PRT
158 <213> ORGANISM: Homo sapiens
160 <400> SEQUENCE: 8

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162 Gly Phe Leu Gly Leu Ser Asn Ile Lys Phe Arg Pro Gly Ser Val Val
163 1 5 10 15
166 Val Gln Leu Thr Leu Ala Phe Arg Glu
167 20 25
170 <210> SEQ ID NO: 9
171 <211> LENGTH: 40
172 <212> TYPE: PRT
173 <213> ORGANISM: Homo sapiens
175 <400> SEQUENCE: 9
177 Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His Gly
178 1 5 10 15
181 Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro
182 20 25 30
185 Pro Ala His Gly Val Thr Ser Ala
186 35 40
189 <210> SEQ ID NO: 10
190 <211> LENGTH: 1255
191 <212> TYPE: PRT
192 <213> ORGANISM: Homo sapiens
194 <400> SEQUENCE: 10
196 Met Thr Pro Gly Thr Gln Ser Pro Phe Phe Leu Leu Leu Leu Thr
197 1 5 10 15
200 Val Leu Thr Val Val Thr Gly Ser Gly His Ala Ser Ser Thr Pro Gly
201 20 25 30
204 Gly Glu Lys Glu Thr Ser Ala Thr Gln Arg Ser Ser Val Pro Ser Ser
205 35 40 45
208 Thr Glu Lys Asn Ala Val Ser Met Thr Ser Ser Val Leu Ser Ser His
209 50 55 60
212 Ser Pro Gly Ser Gly Ser Ser Thr Thr Gln Gly Gln Asp Val Thr Leu
213 65 70 75 80
216 Ala Pro Ala Thr Glu Pro Ala Ser Gly Ser Ala Ala Thr Trp Gly Gln
217 85 90 95
220 Asp Val Thr Ser Val Pro Val Thr Arg Pro Ala Leu Gly Ser Thr Thr
221 100 105 110
224 Pro Pro Ala His Asp Val Thr Ser Ala Pro Asp Asn Lys Pro Ala Pro
225 115 120 125
228 Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr
229 130 135 140
232 Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser
233 145 150 155 160
236 Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His
237 165 170 175
240 Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala
241 180 185 190
244 Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro
245 195 200 205
248 Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr
249 210 215 220
252 Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser

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253 225          230          235          240
256 Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His
257          245          250          255
260 Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala
261          260          265          270
264 Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro
265          275          280          285
268 Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr
269          290          295          300
272 Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser
273 305          310          315          320
276 Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His
277          325          330          335
280 Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala
281          340          345          350
284 Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro
285          355          360          365
288 Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr
289          370          375          380
292 Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser
293 385          390          395          400
296 Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His
297          405          410          415
300 Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala
301          420          425          430
304 Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro
305          435          440          445
308 Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr
309          450          455          460
312 Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser
313 465          470          475          480
316 Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His
317          485          490          495
320 Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala
321          500          505          510
324 Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro
325          515          520          525
328 Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr
329          530          535          540
332 Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser
333 545          550          555          560
336 Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His
337          565          570          575
340 Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala
341          580          585          590
344 Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro
345          595          600          605
348 Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr
349          610          615          620

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352 Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser
353 625                               630                               635                               640
356 Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His
357                               645                               650                               655
360 Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala
361                               660                               665                               670
364 Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro
365                               675                               680                               685
368 Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr
369                               690                               695                               700
372 Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser
373 705                               710                               715                               720
376 Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His
377                               725                               730                               735
380 Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala
381                               740                               745                               750
384 Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro
385                               755                               760                               765
388 Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr
389                               770                               775                               780
392 Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser
393 785                               790                               795                               800
396 Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His
397                               805                               810                               815
400 Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala
401                               820                               825                               830
404 Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro
405                               835                               840                               845
408 Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr
409                               850                               855                               860
412 Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser
413 865                               870                               875                               880
416 Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His
417                               885                               890                               895
420 Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala
421                               900                               905                               910
424 Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro
425                               915                               920                               925
428 Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Asn
429                               930                               935                               940
432 Arg Pro Ala Leu Gly Ser Thr Ala Pro Pro Val His Asn Val Thr Ser
433 945                               950                               955                               960
436 Ala Ser Gly Ser Ala Ser Gly Ser Ala Ser Thr Leu Val His Asn Gly
437                               965                               970                               975
440 Thr Ser Ala Arg Ala Thr Thr Thr Pro Ala Ser Lys Ser Thr Pro Phe
441                               980                               985                               990
444 Ser Ile Pro Ser His His Ser Asp Thr Pro Thr Thr Leu Ala Ser His
445                               995                               1000                               1005
448 Ser Thr Lys Thr Asp Ala Ser Ser Thr His His Ser Ser Val Pro

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VERIFICATION SUMMARY

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